

SEQUENCE LISTING

<110> Coleman, Timothy P.
Peterson, Darrell L.

<120> Advanced Antigen Presentation Platform

<130> 05270001ta

<140> 09/495,947

<141> 2000-02-02

<150> US 60/118,526

<151> 1999-02-02

<160> 24

<170> PatentIn Ver. 2.1

<210> 1

<211> 262

<212> PRT

<213> Duck hepatitis B virus

<400> 1

Met Asp Ile Asn Ala Ser Arg Ala Leu Ala Asn Val Tyr Asp Leu Pro
1 5 10 15

Asp Asp Phe Phe Pro Lys Ile Asp Asp Leu Val Arg Asp Ala Lys Asp
20 25 30

Ala Leu Glu Pro Tyr Trp Arg Ser Asp Ser Ile Lys Lys His Val Leu
35 40 45

Ile Ala Thr His Phe Val Asp Leu Ile Glu Asp Phe Trp Gln Thr Thr
50 55 60

Gln Gly Met His Glu Ile Ala Glu Ala Leu Arg Ala Val Ile Pro Pro
65 70 75 80

Thr Thr Thr Pro Val Pro Ala Gly Tyr Leu Ile Gln His Glu Glu Ala
85 90 95

Glu Glu Ile Pro Leu Gly Asp Leu Phe Lys His Gln Glu Glu Arg Ile
100 105 110

Val Ser Phe Gln Pro Asp Tyr Pro Ile Thr Ala Arg Ile His Ala His
115 120 125

Leu Lys Ala Tyr Ala Lys Ile Asn Glu Glu Ser Leu Asp Arg Ala Arg
130 135 140

Arg Leu Leu Trp Trp His Tyr Asn Cys Leu Leu Trp Gly Glu Ala Asn
145 150 155 160

Val Thr Asn Tyr Ile Ser Arg Leu Arg Thr Trp Leu Ser Thr Pro Glu
165 170 175

Arg Tyr Arg Gly Arg Asp Ala Pro Thr Ile Glu Ala Ile Thr Arg Pro
180 185 190

Ile Gln Val Ala Gln Gly Gly Arg Lys Thr Ser Ser Gly Thr Arg Lys
195 200 205

Pro Arg Gly Leu Glu Pro Arg Arg Arg Lys Val Lys Thr Thr Val Val
210 215 220

Tyr Gly Arg Arg Arg Ser Lys Ser Arg Asp Arg Arg Ala Pro Ser Pro
225 230 235 240

Gln Arg Ala Gly Ser Pro Leu Pro Arg Ser Ser Ser Ser His Arg Arg
245 250 255

Ser Pro Ser Pro Arg Lys
260

<210> 2

<211> 786

<212> DNA

<213> Duck hepatitis B virus

<400> 2

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gattcaataa agaaacatgt tttaattgca actcactttg tggatcttata tgaagacttc 180
tggcaacta ctcagggat gcatgaaata gctgaaggct taagagacgt tataccacct 240
actacaacac cagttccgc aggatatctg attcagcactg aagaggctga ggagattcct 300
ctgggagatt tatttaaaca tcaggaagaa aggatagttt gtttccaaacc ggattatcct 360
attactgcac gaattcatgc acacctgaaa gcttatgcaa agattaacga ggaatcactg 420
gataggccta ggagattgct ttgggtggcat tacaattgtt tactgtgggg agaagctaac 480
gttactaatt atatttctcg gtttcgcact tggctatcaa cacctgagag atacagaggc 540
cgagatgccca aaccattga agcaatca agaccaatcc aagtggctca gggaggcaga 600
aaaacatctt cgggtactag aaaacctcggt ggactcgaac ctagaagaag aaaagttaaa 660
accacagttt tctatggag aagacgttca aagtccaggg ataggagagc cccttcaccc 720
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<210> 3
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
immunostimulating oligonucleotides

<400> 3
tccatgtcgc tcctgatgct

20

<210> 4
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
immunostimulating oligonucleotides

<400> 4
tccatgtcgt tcctgatgct

20

<210> 5
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
immunostimulating oligonucleotides

<400> 5
tcgtcggttt gtcgttttgt cgtt

24

<210> 6
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:
immunostimulating oligonucleotides

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tcgtcggtt cgttgcgtt

20

<210> 7
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
immunostimulating oligonucleotides

<400> 7
tcgtcggtt gtcgtttgtt cgtt

24

<210> 8
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
immunostimulating oligonucleotides

<400> 8
tcgtcggtt cgtttgtcg tt

22

<210> 9
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
immunostimulating oligonucleotides

<400> 9
gcgtgcgtt tcgttgcgt t

21

<210> 10
<211> 21

<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
immunostimulating oligonucleotides

<400> 10
tgtcgttgt cgtttgcgt t

21

<210> 11
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
immunostimulating oligonucleotides

<400> 11
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19

<210> 12
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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
immunostimulating oligonucleotides

<400> 12
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14

<210> 13
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
immunostimulating oligonucleotides

<400> 13
tcctgtcggtt ccttgcgtt

20

<210> 14
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
immunostimulating oligonucleotides

<400> 14
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20

<210> 15
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<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
immunostimulating oligonucleotides

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21

<210> 16
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<212> DNA
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<223> Description of Artificial Sequence:
immunostimulating oligonucleotides

<400> 16
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21

<210> 17
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<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:

immunostimulating oligonucleotides

<400> 17
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24

<210> 18
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
immunostimulating oligonucleotides

<400> 18
tcgtcgaaaa cgaaaaatcg tt

22

<210> 19
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
immunostimulating oligonucleotides

<400> 19
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19

<210> 20
<211> 6
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
immunostimulating oligonucleotides

<400> 20
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6

<210> 21
<211> 239
<212> PRT

<213> Duck hepatitis B virus

<400> 21
Met Asp Ile Asn Ala Ser Arg Ala Leu Ala Asn Val Tyr Asp Leu Pro
1 5 10 15
Asp Asp Phe Phe Pro Lys Ile Asp Asp Leu Val Arg Asp Ala Lys Asp
20 25 30
Ala Leu Glu Pro Tyr Trp Arg Ser Asp Ser Ile Lys Lys His Val Leu
35 40 45
Ile Ala Thr His Phe Val Asp Leu Ile Glu Asp Phe Trp Gln Thr Thr
50 55 60
Gln Gly Met His Glu Ile Ala Glu Ala Leu Arg Ala Val Ile Pro Pro
65 70 75 80
Thr Thr Thr Pro Val Pro Ala Gly Tyr Leu Ile Gln His Glu Glu Ala
85 90 95
Glu Glu Ile Pro Leu Gly Asp Leu Phe Lys His Gln Glu Glu Arg Ile
100 105 110
Val Ser Phe Gln Pro Asp Tyr Pro Ile Thr Ala Arg Ile His Ala His
115 120 125
Leu Lys Ala Tyr Ala Lys Ile Asn Glu Ser Leu Asp Arg Ala Arg
130 135 140
Arg Leu Leu Trp Trp His Tyr Asn Cys Leu Leu Trp Gly Glu Ala Asn
145 150 155 160
Val Thr Asn Tyr Ile Ser Arg Leu Arg Thr Trp Leu Ser Thr Pro Glu
165 170 175
Arg Tyr Arg Gly Arg Asp Ala Pro Thr Ile Glu Ala Ile Thr Arg Pro
180 185 190
Ile Gln Val Ala Gln Gly Gly Arg Lys Thr Ser Ser Gly Thr Arg Lys
195 200 205
Pro Arg Gly Leu Glu Pro Arg Arg Arg Lys Val Lys Thr Thr Val Val
210 215 220
Tyr Gly Arg Arg Arg Ser Lys Ser Arg Asp Arg Arg Ala Pro Ser
225 230 235

<210> 22
<211> 717
<212> DNA
<213> Duck hepatitis B virus

<400> 22
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gattcaataa agaaacatgt ttaatttgcg actcaacttgc tggatcttgc tgaagacttc 180
tggcaaaactt ctcagggtt gcatgaaata gctgaaggctt taagagcagt tataccacct 240
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ctggggagatt tatttaaaca tcaggaagaa aggatagttt gtttccaacc ggatttaccc 360
attactgcac gaatttcatgc acacctgaaa gcttgcgaa agattaacga ggaatcactg 420
gatagggctt ggagatttgc ttgggtggcat tacaattttt tactgtgggg agaagctaac 480
gttactaattt atatttctcg gtttcgcact tggctatcaa cacctgagag atacagaggc 540
cgagatgccc caaccattga agcaatcaact agaccaatcc aagtggctca gggaggcaga 600
aaaacatctt cgggtacttag aaaacctcggtt ggactcgaaac ctagaagaag aaaagttaaa 660
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<210> 23
<211> 214
<212> PRT
<213> Duck hepatitis B virus

<400> 23
Met Asp Ile Asn Ala Ser Arg Ala Leu Ala Asn Val Tyr Asp Leu Pro
1 5 10 15
Asp Asp Phe Phe Pro Lys Ile Asp Asp Leu Val Arg Asp Ala Lys Asp
20 25 30
Ala Leu Glu Pro Tyr Trp Arg Ser Asp Ser Ile Lys Lys His Val Leu
35 40 45
Ile Ala Thr His Phe Val Asp Leu Ile Glu Asp Phe Trp Gln Thr Thr
50 55 60
Gln Gly Met His Glu Ile Ala Glu Ala Leu Arg Ala Val Ile Pro Pro
65 70 75 80
Thr Thr Thr Pro Val Pro Ala Gly Tyr Leu Ile Gln His Glu Glu Ala
85 90 95
Glu Glu Ile Pro Leu Gly Asp Leu Phe Lys His Gln Glu Glu Arg Ile
100 105 110

Val Ser Phe Gln Pro Asp Tyr Pro Ile Thr Ala Arg Ile His Ala His
115 120 125
Leu Lys Ala Tyr Ala Lys Ile Asn Glu Glu Ser Leu Asp Arg Ala Arg
130 135 140
Arg Leu Leu Trp Trp His Tyr Asn Cys Leu Leu Trp Gly Glu Ala Asn
145 150 155 160
Val Thr Asn Tyr Ile Ser Arg Leu Arg Thr Trp Leu Ser Thr Pro Glu
165 170 175
Arg Tyr Arg Gly Arg Asp Ala Pro Thr Ile Glu Ala Ile Thr Arg Pro
180 185 190
Ile Gln Val Ala Gln Gly Gly Arg Lys Thr Ser Ser Gly Thr Arg Lys
195 200 205
Pro Arg Gly Leu Glu Pro
210

<210> 24
<211> 642
<212> DNA
<213> Duck hepatitis B virus

<400> 24
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gattcaataa agaaacatgt tttaattgca actcaatttg tggatcttat tgaagacttc 180
tggcaaacta ctcagggtat gcatgaaata gctgaagcct taagagcagt tataccacct 240
actacaacac cagttccgc aggatatctg attcagcacg aagaggctga ggagattcct 300
ctgggagatt tatttaaaca tcaggaagaa aggatagttt gtttccaacc ggattatcct 360
attactgcac gaattcatgc acacctgaaa gcttatgcaa agattaacga ggaatcactg 420
gatagggcta ggagattgct ttgggtggcat tacaattgtt tactgtgggg agaagctaac 480
gttactaatt atatttctcg gcttcgcact tggctatgcaa cacctgagag atacagaggc 540
cgagatgccc caaccattga agcaatcact agaccaatcc aagtggctca gggaggcaga 600
aaaacatctt cgggtacttag aaaacctcgt ggactcgaac ct 642